

DECEMBER

at the

CALIFORNIA ACADEMY OF SCIENCES

DECEMBER MEETING

DATE: Wednesday evening, December 10
TIME: 8:00 p.m. (One presentation only)
PLACE: May Treat Morrison Auditorium
SUBJECT: "THE DOLPHINS THAT JOINED THE NAVY" and "THE STORY OF SEA LAB II".

Last month at the monthly membership meeting, we explored outer space by featuring the Apollo program. This month it seems only fair that we give equal time to inner space. The two films to be presented were made available by the U.S. Naval Oceanographic Office.

"THE DOLPHINS THAT JOINED THE NAVY" records the various research approaches being taken by Navy scientists to learn about dolphins, their intelligence potential, and especially their sonar system. As we are all aware, dolphins are considered to be among the most intelligent of animals. This film in color illustrates the Navy's care and handling of these mammals who, as research continues, may unlock many, many secrets.

"THE STORY OF SEA LAB II" deals mainly with the complex attempt to colonize the continental shelf — an underwater experiment in study and in living. Aquanauts live and work in an underwater habitat for long periods of time, occasionally leaving the habitat to explore in the depths of the ocean floor. This film is also in color. Astronaut Scott Carpenter is among those appearing in this inner space motion picture.

One presentation only at 8:00 p.m. with seating on a first-come first-served basis. Should the auditorium be filled, late comers will be invited to enjoy the current sky show in Morrison Planetarium. Your 1969 membership card is your admission. Two ways of ingress are available: Cowell Hall, Main Entrance; and the rear Planetarium entrance off Middle Drive.

MORRISON PLANETARIUM

"WHAT'S UP?" continues through December 14.

Beginning December 17 and extending through January 4, "STAR OF WONDER", the Theatre of the Stars' holiday favorite for all ages — a journey to Bethlehem to see what could have been seen by the Wise Men almost 2,000 years ago.

Shows daily at 2:00 with evening performances, Wednesday through Sunday, at 8:30. Extra matinees at 3:30 on Saturdays and Sundays. Closed Monday and Tuesday nights, Christmas Eve, Christmas Day, New Year's Eve. Admission: Adults, \$1.00, with half price for students with student body card, armed services personnel, and children under 16.

Coming, January 8: "ORION IN WINTER".

NEWS and NOTES

ON THE EVENING of October 25, the Fellows of the Academy bestowed its highest honor, the Fellows Medal, to a highly respected and beloved man whose name is familiar to Academy members and one which will forever remain in CAS history: Robert Cunningham Miller. The occasion was the Annual Banquet of the Fellows held in the nighttime beauty of Steinhart Aquarium and the award was made by Dr. A. Starker Leopold, President.

For twenty-five years, Dr. Miller was Director of the CAS. On his retirement in 1963 he became the Academy's first Senior Scientist and has continued his daily schedule of writing and research since that time. As a zoologist, Dr. Miller has widespread interests: bird behavior and flight; the biology of marine wood-boring organisms; and biological oceanography to mention but a few. He has published widely in both scientific and popular circles, his most recent being a volume entitled "The Sea" which appeared in 1966 and was published by Random House. It has been translated into French, Italian, German and Dutch.

The Fellows Medal has been awarded five times previously to men pre-eminent in their field: Ira L. Wiggins, Laurence M. Klauber, Carl L. Hubbs, G. Dallas Hanna and Tracy I. Storer.

AGAIN, an annual reminder about your membership: Regular membership is considered to include both husband and wife and both are entitled to all rights and privileges. All other categories of membership — Family, Contribu-

ting, Subscribing, Annual Sponsor or Life, are considered to include all members of a single family.

On payment of your 1970 dues, members will be sent five guest tickets which will allow them to invite friends to the monthly membership meetings.

It isn't too late to consider the solid joy to be shared in giving Academy memberships or subscriptions to PACIFIC DISCOVERY at this holiday-time and we welcome your inquiry by mail or telephone: California Academy of Sciences, Golden Gate Park, San Francisco 94118 — (415) 221-5100.

Also we would like to remind you that we have really tasteful and beautiful merchandise at reasonable prices on sale at our various sales desks. Your membership card allows a 10% discount on all items. HAPPY HOLIDAYS!

WITH THE INITIAL Docent Training Program drawing to a close, we wish to make it known that the second program will begin February 4. As indicated earlier in the August 1969 NEWS-LETTER, the purpose of the program is to provide well-trained volunteer tour guides for certain areas of the Academy. Ten sessions of two hours each on Wednesday mornings are involved in the course of basic training which are taught by members of the Academy staff. At present, the main concern is the contents of North American Bird and Mammal Halls, their habitat groups and other displays.

Academy membership is required for all Docents. Applicants must have individual interviews which will be scheduled during the month of January. They must be willing to serve the Academy for two years upon completion of the course, one-half day every other week. There is a fee of \$20.00 for the course.

Telephone the Docent Office at 221-5100 (nine a.m. to one p.m., Monday through Friday) for an interview or for further information.

DURING ALL of the month of November, the Academy presented one of the finest exhibits in its history and that statement is not made idly. It came to us through the courtesy of the German Consulate and was entitled "PRINTING TRANSFORMS THE WORLD — JOHANNES GUTENBERG 1400-1468", which included a working model of his original press from which a printer, in costume, pulled page proofs. Accompanying it were 96 panels and 16 cases of illustrative material

which encompassed the history of printing — photographic reproductions of wood blocks, moveable type, engravings. Also, the San Francisco CHRONICLE, the San Francisco EXAMINER and the Oakland TRIBUNE furnished historic front pages from their respective newspapers which added considerably to the total exhibit.

As the NEWSLETTER is being prepared for the printer there is a possibility that this fine display may be extended beyond the present closing date of November 30. Call the Academy (221-5100) for information and if you haven't enjoyed "PRINTING TRANSFORMS THE WORLD" you have really missed something quite wonderful!

Meet The Staff . . .



Photo by Lloyd Ullberg

DAVID W. TODD, JR., Captain U.S.N. (Ret.), Instructor for the Morrison Planetarium staff, has spent the past five years disclosing the secrets and sharing the know-how of celestial navigation with literally hundreds of students. His first course was offered in the autumn of 1964 and twenty five people registered. Now, ten classes later, his enrollment is in excess of one hundred each semester and people have had to be turned away — a sure sign of success.

Captain Todd refers to himself as a "Navy Junior" in that his father was a Naval Officer who imbued his son with a deep love for the sea. Born in Genoa, Italy, Captain Todd saw much of the world as a child including the Philippines, Japan and China. He was educated mainly in Washington, D.C. and then proceeded to the U.S. Naval Academy at Annapolis from which he was commissioned in 1928. During World War II years, he was on duty with the cruiser *New Orleans* which ploughed the West Pacific. Before retiring in 1958, his last duty was with the Military Sea Transportation Service in France at La Rochelle.

On his retirement, Captain Todd felt he wished to become a teacher and he proceeded in that direction by enrolling in education courses first at San Jose State and later at San Francisco State. However, for personal reasons and because providence seemed to be working overtime, he gave that up to begin his celestial navigation courses at the Academy which truly have been a phenomenal success.

He resides in San Francisco with his wife Katharine. They have two sons, David III, who is a ranger-naturalist with the National Park Service, and James, who is a professor in organic chemistry teaching at Whitman College in Walla Walla, Washington.

Capt. Todd's current number one desire is take a long ocean voyage (the sea has never quite left him). He is a stamp collector with accent on U.S. stamps — particularly those which feature ships or maps.

"My *real* hobby however," he says, "is the great fun of teaching the courses in celestial navigation. Being retired, how fortunate can one be?"

NEW MEMBERS OF THE ACADEMY

Regular Members

Mrs. George Ballentyne	Mr. Jack L. Mar
Mr. Joe Bradshaw	Mrs. Vivian Moore
Mr. William Price Craven	Miss Lorie McMullen
Mr. Michael Davenport	Mr. Noel Peattie
Mr. Campbell Grant	Mr. Rulon B. Pitman
Mrs. Katharine D. Jenkins	Mr. Herbert E. Pruett

Family Members

Mr. & Mrs. Dennis G. Breckenridge	Mr. James H. Kell
Miss Ellen G. Breslauer	Mr. Luis S. Kemnitzer
Mr. Charles J. Brown	Mr. Forrester I. Nicholson
Mr. Thomas W. Cunningham	Mr. Denis F. Quinn
Mr. Wilfred E. Gagne	Mr. & Mrs. Robert S. Pruett
Mr. Robert Jacobs	Mr. & Mrs. A. N. Reilly
	Mr. Sherman H. Thompson

Contributing Members

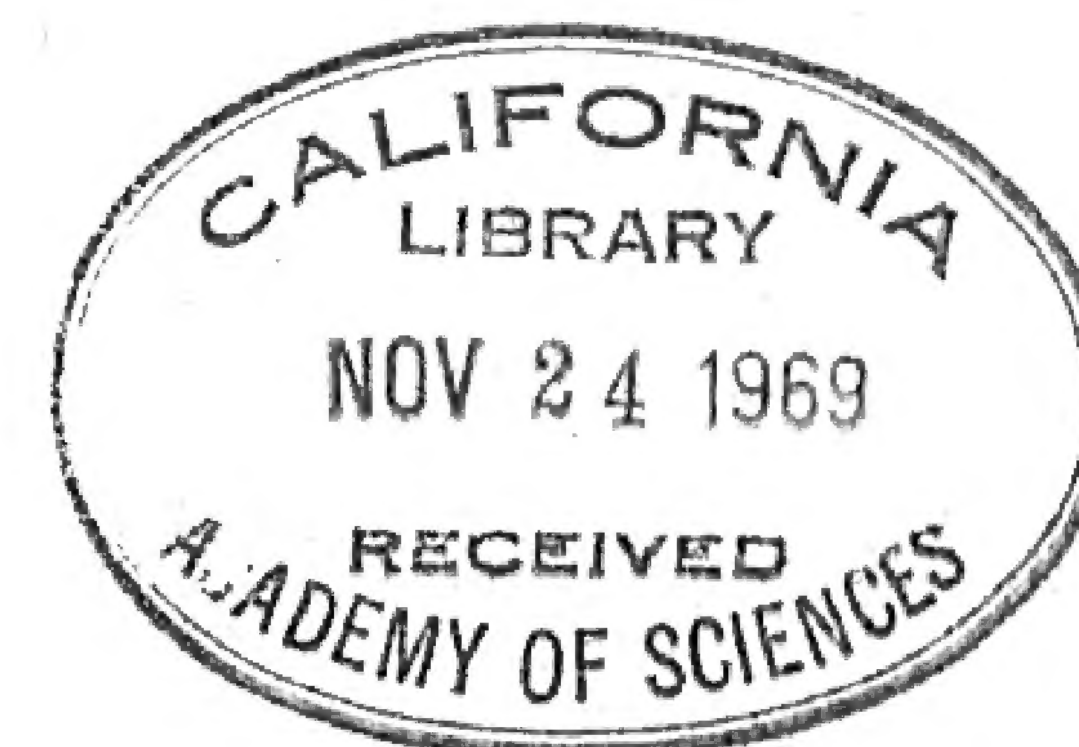
Mr. John E. deVries	Mr. Thomas E. Perdue
Mr. David F. Struxness	



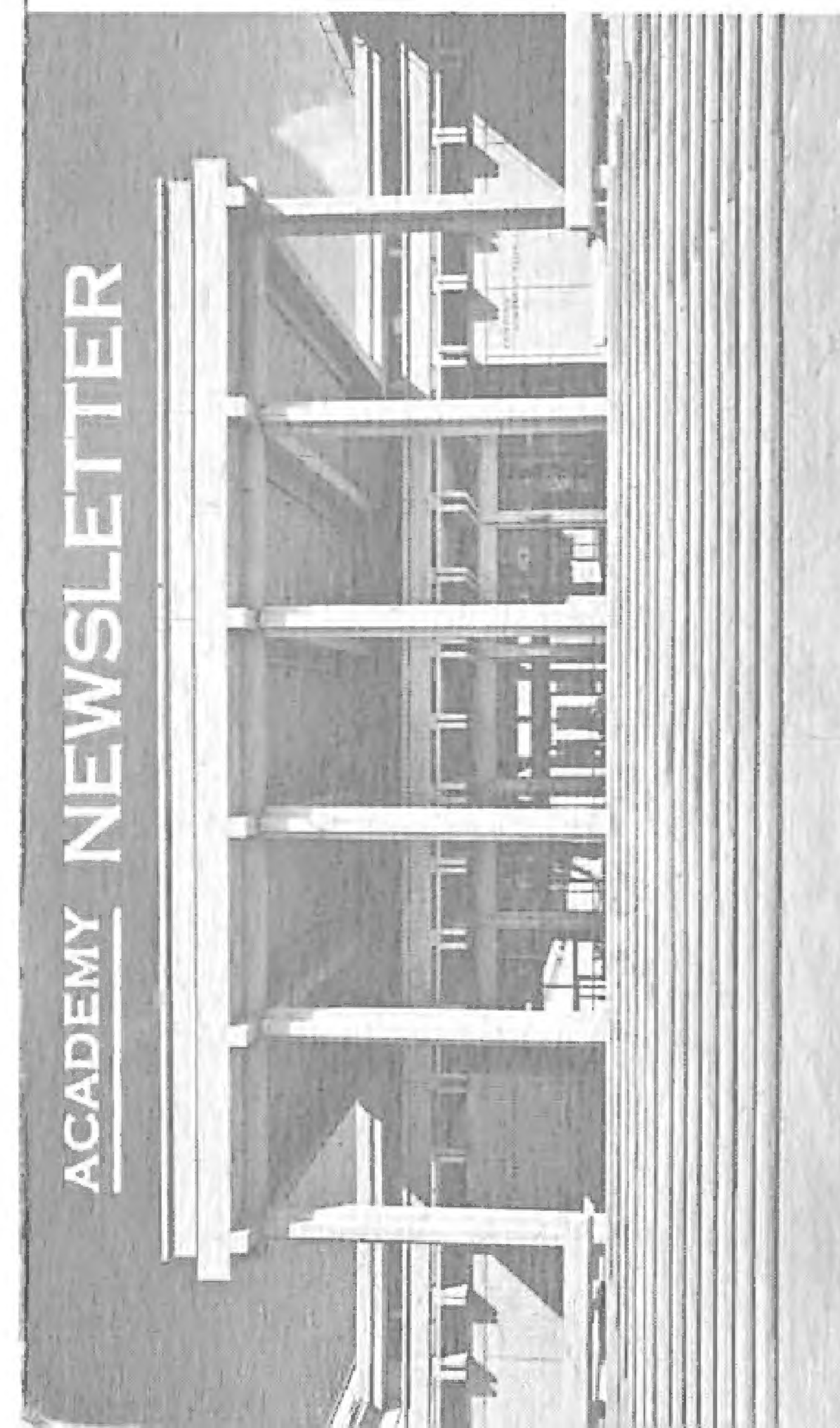
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